

CURRENT STATUS OF ALL APPLICATION CLAIMS

1. (currently amended).
2. (original).
3. (original).
4. (original).
5. (cancelled).
6. (previously presented).
7. (original).
8. (original).
9. (original).
10. (cancelled).
11. (currently amended).
12. (original).
13. (original).
14. (original).
15. (cancelled).
16. (currently amended).
17. (original).
18. (original).
19. (original).
20. (cancelled).

IN THE SPECIFICATION

In page 1 replace the paragraph "Relevant Art" as shown.

RELEVANT ART

Trunnions used in mortar mixing drums employ sealing apparatus including a single set of resilient seals with lips biased against the paddle shaft and facing the interior space of the drum. A single grease chamber is formed by and positioned outwardly of the set of seals away from the drum. Conventional trunnions allow the contaminated grease to be pushed outwardly into the trunnion/shaft bearing area as the seal/shaft interface shows wear and tear over a period of time. What is desired is a sealing system that increases the protection of the shaft bearing.

Page 5, replace the second full paragraph

A triple seal completes the second inner grease chamber closest to the drum and is front loaded into the trunnion housing with all three seals lips on the paddle shaft facing into the mixer's drum. These three seals are held in position by trunnion mounting bolts. Because the chamber has a positive outer seal, the fresh grease can now push all the contaminated grease back into the mixer's drum when the grease is forced into the inner chamber.

Page 7, replace the 4th paragraph

The "side by side" grease chambers are also unique. The outside grease chamber or "the bearing grease chamber", when pressurized, the grease is fed in to directions (1) into the front drum seal grease chamber and (2) backwards into the paddle shaft bearing. The drum seal grease chamber when pressurized with grease can feed in only one direction, back into the drum, thus providing the ability to purge this grease chamber of all contaminated grease, and extending the life of the drum seals. The contaminated grease is forced back into the drum and never backwards into the bearing as is the case in most mixer designs.

COMPLETE COPY OF ALL APPLICATION CLAIMS

1. (currently amended) A trunnion assembly for a mortar mixer including a substantially cylindrical drum having end plates and an elongate paddle shaft mounted horizontally and extending into a bearing through each drum and plate into a bearing carried by said trunnion assembly, said trunnion assembly comprising a housing, said housing having an interior space defined by an interior surface around such shaft, a first seal means adjacent an end plate and positioned around such shaft, first mounting means for affixing said first seal means between such shaft and said interior surface, a second seal means spaced outwardly from said first seal and positioned around such shaft, second mounting means for affixing said second seal between such shaft and said interior surface, said first and second seal means partitioning a portion of said interior space to define a first chamber for carrying grease, said second seal means being spaced away from a shaft bearing to partition a second portion of said interior space to define a second chamber for carrying grease, said housing including a first grease passageway for providing grease into said first chamber and a second grease passageway spaced away from said first grease passageway for providing grease into said second chamber, said first and second grease passageways being separate, distinct and non-communicating with each other such that said first and second chambers are individually greased respectively from said first and second grease passageways.
2. (original) The trunnion assembly as defined in Claim 1 wherein said first seal means includes a plurality of resilient seal elements, each said seal element having one end portion in contact with such shaft.
3. (original) The trunnion assembly as defined in Claim 2 wherein said second seal means includes a single resilient seal element, said single seal element having one end portion in contact with such shaft.

4. (original) The trunnion assembly as defined in Claim 1 wherein said second seal means includes a resilient seal element, said seal element having one end portion in contact with such shaft.

5. (cancelled).

6. (previously presented) A pair of trunnion assemblies for the paddle shaft of a mortar mixer including a substantially cylindrical drum having end plates, each said trunnion assembly comprising a housing, said housing having an interior space defined by an interior surface comprising a housing, said housing having an interior space defined by an interior surface around such shaft, a first seal means adjacent an end plate and positioned around such shaft, first mounting means for affixing said first seal means between such shaft and said interior surface, a second seal means spaced outwardly from said first seal and positioned around such shaft, second mounting means for affixing said second seal between such shaft and said interior surface, said first and second seal means partitioning a portion of said interior space to define a first chamber for carrying grease, said second seal means being spaced away from a shaft bearing to partition a second portion of said interior space to define a second chamber for carrying grease, each said housing including a pair of spaced grease fittings, a first passageway communicating between one of said grease fittings and said first chamber and a second passageway communicating between one of said grease fittings and said first chamber and a second passageway communicating between another said grease fittings and said second chamber.

7. (original) The trunnion assemblies as defined in Claim 6 wherein said first seal means includes a plurality of resilient seal elements, each said seal element having one end portion in contact with such shaft.

8. (original) The trunnion assemblies as defined in Claim 7 wherein said second seal means includes a single resilient seal element, said single seal element having one end portion in contact with such shaft.

9. (original) The trunnion assemblies as defined in Claim 6 wherein said second seal means includes a resilient seal element, said seal element having one end portion in contact with such shaft.

10. (cancelled).

11. (currently amended) An improved trunnion assembly that includes a housing including a first and second end portion and an interior spaced space defined by an interior surface for a shaft and a bearing mounted in said second portion for such shaft, the improvement comprising a first seal means adjacent said first end portion and positioned around such shaft, said first seal means including at least one first seal element and mounting means for mounting said at least one seal element to said interior surface and in contact with such shaft, a second seal means spaced away from said first seal means including at least one second seal element and mounting means for mounting said at least one second seal element defining a first chamber for carrying lubricating material therein, a portion of said interior space between said at least one second seal element and a bearing mounted in said end portion defining a second chamber for carrying lubricating material therein, said housing including a first grease fitting and a first passageway communicating between said first grease fitting and said first chamber and a second grease fitting spaced away from said first grease fitting and a second passageway spaced away from said first passageway communicating between said second grease fitting and said second chamber.

12. (original) The trunnion assembly as defined in Claim 11 wherein said first seal means includes a plurality of resilient seal elements, each said seal element having one end portion in contact with such shaft.

13. (original) The trunnion assembly as defined in Claim 12 wherein said second seal means includes a single resilient seal element, said single seal element having one end portion in contact with such shaft.

14. (original) The trunnion assembly as defined in Claim 11 wherein said second seal means includes a resilient seal element, said seal element having one end portion in contact with such shaft.

15. (cancelled).

16. (currently amended) Improved trunnion assemblies for a rotatable mixing apparatus, each trunnion assembly including a housing including a first and second end portion and an interior space defined by an interior surface for a shaft and a bearing mounted in said second end portion for such shaft, the improvement comprising a first seal means adjacent said first end portion and positioned around such shaft, said first seal means including at least two first seal elements and mounting means for mounting each said first seal element to said interior surface and in contact with such shaft, a second seal means spaced away from said first seal means including at least one second seal element and mounting means for mounting said at least one second seal element to said interior surface and in contact with such shaft, a portion of said interior space between said at least one first seal element and said at least one second seal element defining a first chamber for carrying lubricating material therein, a portion of said interior space between said at least one second seal element and a bearing mounted in said end portion defining a second chamber for carrying lubricating material therein, each said housing including a pair of spaced grease fittings and a pair of elongated spaced passageways respectively connected connecting said grease fittings with said first and second chambers.

17. (original) The trunnion assemblies as defined in Claim 16 wherein said first seal means includes three resilient seal elements, each said seal element having one end portion in contact with such shaft.

18. (original) The trunnion assemblies as defined in Claim 17 wherein said second seal means includes a single resilient seal element, said single seal element having one end portion in contact with such shaft.

19. (original) The trunnion assemblies as defined in Claim 16 wherein each said first seal element includes a resilient member, said member having one end portion in contact with such shaft.

20. (cancelled).